

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently amended) A method of producing a genetically modified plant having increased size as compared to a wild-type plant, comprising:

contacting a plant cell with at least one nucleic acid sequence encoding a brassinazole resistant polypeptide BZR1~~protein~~, said nucleic acid sequence operably associated with a promoter, to obtain a transformed plant cell;
producing a plant from said transformed plant cell; and
selecting a plant exhibiting said increased size.

2. (Original) The method of Claim 1, wherein the contacting is by physical means.

3. (Original) The method of Claim 1, wherein the contacting is by chemical means.

4. (Original) The method of Claim 1, wherein the plant cell is selected from the group consisting of protoplasts, gamete producing cells, and cells which regenerate into whole plants.

5. (Original) The method of Claim 1, wherein the promoter is selected from the group consisting of a constitutive promoter and an inducible promoter.

6. (Currently Amended) The method of Claim 1, wherein said brassinazole resistant polypeptide BZR1~~protein~~ has an amino acid sequence selected from the group consisting of: SEQ ID NO: 6, SEQ ID NO: 7, ~~and~~ SEQ ID NO: 8, and SEQ ID NO: 10.

7. (Currently Amended) The method of Claim 1, wherein said nucleic acid sequence is selected from the group consisting of: SEQ ID NO: 1, SEQ ID NO: 2, ~~and~~ SEQ ID NO: 3, and SEQ ID NO: 9.

8. (Currently amended) A genetically modified plant exhibiting increased size in comparison to a wildtype plant, wherein said genetically modified plant comprises at least one exogenous nucleic acid sequence encoding a BZR1brassinazole resistant polypeptide, wherein said polypeptide comprises an amino acid sequence with at least 80% sequence homology to SEQ ID NO :6.

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9. (Original) The genetically modified plant of Claim 8, wherein the amino acid comprises at least 85% homology to SEQ ID NO:6.

10. (Original) The genetically modified plant of Claim 8, wherein the amino acid comprises at least 90% homology to SEQ ID NO:6.

11. (Original) The genetically modified plant of Claim 8, wherein the amino acid comprises at least 95% homology to SEQ ID NO:6.

12. (Original) The genetically modified plant of Claim 8, wherein the exogenous nucleic acid sequence is linked to a promoter selected from the group consisting of: a constitutive promoter and an inducible promoter.

13. (Currently amended) The genetically modified plant of Claim 8, wherein said amino acid has an amino acid sequence selected from the group consisting of SEQ ID NO: 6, SEQ ID NO: 7, ~~and~~ SEQ ID NO: 8, and SEQ ID NO: 10.

14. (Currently amended) The genetically modified plant of Claim 8, wherein said exogenous nucleic acid sequence has a sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO:2, ~~and~~ SEQ ID NO:3, and SEQ ID NO: 9.

15. (Original) The genetically modified plant of Claim 8, wherein the plant is a dicotyledonous plant.

16. (Original) The genetically modified plant of Claim 8, wherein the plant is a monocotyledonous plant.

17. (Currently amended) A genetically modified seed, wherein said seed produces a plant exhibiting increased size in comparison to a wildtype plant, wherein said genetically modified seed comprises at least one exogenous nucleic acid sequence encoding a ~~BZR1~~brassinazole resistant polypeptide, wherein said polypeptide comprises an amino acid sequence with at least 80% sequence homology to SEQ ID NO :6.

18. (Original) The genetically modified seed of Claim 17, wherein the amino acid comprises at least 85% homology to SEQ ID NO:6.

19. (Original) The genetically modified seed of Claim 17, wherein the amino acid comprises at least 90% homology to SEQ ID NO:6.

20. (Original) The genetically modified seed of Claim 17, wherein the amino acid comprises at least 95% homology to SEQ ID NO:6.

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21. (Original) The genetically modified seed of Claim 17, wherein the exogenous nucleic acid sequence is linked to a promoter selected from the group consisting of: a constitutive promoter and an inducible promoter.

22. (Currently amended) The genetically modified seed of Claim 17, wherein said amino acid has an amino acid sequence selected from the group consisting of SEQ ID NO: 6, SEQ ID NO: 7, ~~and~~ SEQ ID NO: 8 and SEQ ID NO: 10.

23. (Currently amended) The genetically modified seed of Claim 17, wherein said exogenous nucleic acid sequence has a sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, ~~and~~ SEQ ID NO: 3 and SEQ ID NO: 9.

24. (Original) A substantially purified bzr1-D polypeptide having the amino acid sequence of SEQ ID NO: 7.

25. (Original) A nucleic acid comprising a nucleotide sequence encoding a bzr1-D polypeptide having the amino acid sequence of SEQ ID NO: 7.

26. (Original) The nucleic acid of Claim 25, wherein said nucleic acid comprises the nucleotide sequence of SEQ ID NO: 2.

27. (Original) The nucleic acid of Claim 25, wherein said nucleic acid comprises the nucleotide sequence of SEQ ID NO: 5.